

WHAT IS CLAIMED IS:

1. A mobile station for registering its location in a base station based on public land mobile network information included in system information which the
5 base station transmits, the public land mobile network information including country and network identification codes, the mobile station comprising:

a memory for storing a roaming public land mobile network table which has home public land mobile network information and information for a public land mobile network of a mobile communication business proprietor which supports a
10 roaming function into the public land mobile network of a mobile communication business proprietor and a home public land mobile network; and

a controller for determining whether acquired public land mobile network information exists in the roaming public land mobile network table stored in the memory using a frequency having a maximum receiving strength when international
15 roaming occurs, registering the mobile station in a base station using the acquired public land mobile network information when the acquired public land mobile network information exists in the roaming public land mobile network table, acquiring new public land mobile network information using frequencies having a receiving strength less than the maximum receiving strength when the acquired
20 public land mobile network information does not exist in the roaming public land mobile network table and determining whether the newly acquired public land mobile network information exists in the roaming public land mobile network table.

2. The mobile station as recited in claim 1, wherein the memory stores final
25 usage public land mobile network information; and

the controller extracts public land mobile network information from the acquired system information using the frequency having a maximum receiving

strength when power of the mobile station is turned on, compares a country code of the extracted public land mobile network information with a country code of the final usage public land mobile network information, and determines that international roaming occurs when the country code of the extracted public land 5 mobile network information is different from the country code of the final usage public land mobile network information.

3. The mobile station as recited in claim 1, wherein the roaming public land mobile network table is obtained by tabling public land mobile network information 10- for a roaming mobile communication business proprietor with respect to a plurality of home public land mobile network information; and

when determining whether the acquired public land mobile network information exists in the roaming public land mobile network table, the controller reads the home public land mobile network information from the memory, and 15 compares the read home public land mobile network information with roaming public land mobile network information corresponding to the home public land mobile network information.

4. The mobile station as recited in claim 2, wherein the controller registers 20 the mobile station in a final usage public land mobile network when the country code of the extracted public land mobile network information is identical with the country code of the final usage public land mobile network information.

5. The mobile station as recited in claim 1, wherein the base station transmits 25 the home public land mobile network information and the roaming public land mobile network information to the mobile station by a short service cell broadcast; and

the controller updates the roaming public land mobile network table stored in the memory based on the short service cell broadcast provided from a base station of one of the home mobile communication business proprietor and another mobile communication business proprietor.

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6. A method for selecting a public land mobile network of a mobile station in order to register the mobile station in a base station based on public land mobile network information included in system information which the base station transmits, the mobile station including a memory for storing final usage public land mobile network information and home public land mobile network information, the method comprising the steps of:
10. (i) storing a roaming public land mobile network table in the memory, the roaming public land mobile network table including the home public land mobile network information and a plurality of public land mobile network information;

15 (ii) acquiring public land mobile network information using a frequency having a maximum receiving strength when power of the mobile station is turned on;

(iii) determining whether international roaming occurs;

(iv) determining whether the acquired public land mobile network 20 information

exists in the roaming public land mobile network table stored in the memory when the international roaming occurs; and

(v) registering the mobile station in the base station when the acquired public land mobile network information exists in the roaming public land mobile network 25 table stored in the memory, acquiring new public land mobile network information using frequencies having receiving strength less than the maximum receiving strength when the acquired public land mobile network information does not exist in

the roaming public land mobile network table and comparing the newly acquired public land mobile network information with the roaming public mobile network table.

5 7. The method as recited in claim 6, wherein step (iii) includes the step of comparing the acquired public land mobile network information with a country code of a final usage public land mobile network information.

10 8. The method as recited in claim 6, wherein the roaming public land mobile network table is obtained by tabling public land mobile network information for a mobile communication business proprietor which supports a roaming function with respect to a plurality of home public land mobile network information; and

15 the method further comprising the step of :

reading the home public land mobile network information from the memory;
15 and

comparing, at step (iv), the acquired public land mobile network information with roaming public land mobile network information corresponding to the read home public land mobile network information.

20 9. The method as recited in claim 6, further comprising the steps of:

(vi) receiving new public land mobile network information from the base station through a short service cell broadcast; and

25 (vii) updating the roaming public land mobile network table by adding the received new public land mobile network information to the roaming public land mobile network table.